GRADE 8 - Chapter 2, sec. 1 & 3 REVIEW SHEET

1. An organism’s genetic makeup is its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. An organism’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can change based on the environment.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for environmental factors has significant effects on a population.
4. A phenotype is an organism’s visible genetic makeup and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ influence on that makeup.
5. The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ states that organisms that are well-adapted to their environment survive and reproduce at a greater rate than other organisms do.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when the last individual of a species dies.
7. In the process of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, several species are produced from one ancestral species.
8. A feature that an organism inherits is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process in which DNA changes to form new alleles.
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the change in the genetic makeup of a species over time.
11. The destruction of a species’ habitat is one cause of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ helps to explain the wide variety of living things.
13. Over long time periods, the environment impacts a species’ ability to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. Temperature, rainfall, fire, etc. are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ influences on a species.
15. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ involves human choice in the traits desired in offspring.
16. Darwin and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ explained \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. Over time, environmental factors can change the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a species.
18. Availability of food, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the number of species living in an area affect a species’ survival.

Other Ideas:

How do mutations and natural selection affect species?

What environmental factors might affect the growth of a small tree in a forest?

What factors might contribute to the extinction of a species?

How could the introduction of a new species to an area cause the extinction of another species?

GRADE 8 - Chapter 2, sec. 1 & 3 REVIEW SHEET - **ANSWERS**

1. An organism’s genetic makeup is its \_\_\_\_**GENOTYPE**\_\_\_\_.
2. An organism’s \_\_\_\_**APPEARANCE**\_\_\_ can change based on the environment.
3. \_\_\_**COMPETITION**\_\_\_\_\_\_ for environmental factors has significant effects on a population.
4. A phenotype is an organism’s visible genetic makeup and the \_\_\_\_**ENVIRONMENT’S**\_\_\_\_ influence on that makeup.
5. The theory of \_\_\_\_**NATURAL SELECTION**\_\_\_\_\_ states that organisms that are well-adapted to their environment survive and reproduce at a greater rate than other organisms do.
6. \_\_\_\_\_**EXTINCTION**\_\_\_\_ occurs when the last individual of a species dies.
7. In the process of \_\_\_**ADAPTIVE** **RADIATION**\_\_\_\_, several species are produced from one ancestral species.
8. A feature that an organism inherits is called a(n) \_\_\_\_**TRAIT**\_\_\_.
9. \_\_\_\_\_**MUTATION**\_\_\_ is the process in which DNA changes to form new alleles.
10. \_\_\_\_**EVOLUTION**\_\_\_ is the change in the genetic makeup of a species over time.
11. The destruction of a species’ habitat is one cause of \_\_\_\_**EXTINCTION**\_\_\_\_.
12. The theory of \_\_\_\_**EVOLUTION**\_ helps to explain the wide variety of living things.
13. Over long time periods, the environment impacts a species’ ability to \_\_\_\_**SURVIVE**\_\_\_.
14. Temperature, rainfall, fire, etc. are \_\_\_\_**NONLIVING**\_\_\_\_ influences on a species.
15. \_\_\_\_**SELECTIVE** **BREEDING**\_\_\_\_ involves human choice in the traits desired in offspring.
16. Darwin and \_\_\_\_**WALLACE**\_\_\_\_\_\_ explained \_\_\_\_\_\_**EVOLUTION**\_\_\_.
17. Over time, environmental factors can change the \_\_\_\_**GENETICS**\_\_\_ of a species.
18. Availability of food, \_\_\_\_**PREDATORS**\_\_\_, and the number of species living in an area affect a species’ survival.